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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/764,572	01/27/2004	Jerry Moscovitch	5US1PC1US1US	9024
54984 7590 04/25/2007 MASS ENGINEERED DESIGN INC. 474 WELLINGTON STREET WEST TORONTO, ON M5V-1E3 CANADA			EXAMINER ZARROLI, MICHAEL C	
			ART UNIT 2839	PAPER NUMBER
SHORTENED STATUTORY PERIOD OF RESPONSE 3 MONTHS		MAIL DATE 04/25/2007	DELIVERY MODE PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No. 10/764,572	Applicant(s) MOSCOVITCH, JERRY	
	Examiner Michael C. Zarroli	Art Unit 2839	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 March 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6, 25-56, 103-122 and 1318 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 6, 17, 18, 30, 36, 37, 55 and 56 is/are allowed.
- 6) ☒ Claim(s) 1-5, 13-16, 25-29, 31-35, 51-54, 103-107, 109-117, 119-122 is/are rejected.
- 7) ☒ Claim(s) 108 and 118 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>4/9/07</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/23/07 has been entered.

Claim Objections

2. Claim 108 objected to because of the following informalities: Antecedent problem with "the four edges." Appropriate correction is required.
3. Claim 109 objected to because of the following informalities: Antecedent problem with "the first mating member." Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-5 rejected under 35 U.S.C. 102(e) as being clearly anticipated by
Ross et al.

Ross discloses a connector apparatus for allowing quick electrical and mechanical coupling and decoupling of a display 202 to a support member (col. 3 lines 63-67) disposed within a vehicle, at a wall (title & abstract 1st sentence), the apparatus comprising: a first mounting component fig. 3 for the display, the first mounting component having a first engaging member 308, 312, 314 and a first electrical connector 310, 316; and (b) a second mounting component fig. 2 for the support member disposed within the vehicle (col. 2 line 64 to col. 3 line 1), the second mounting component including a second engaging member 206 having a shape complementary to the first engaging member fig. 5 and a second electrical connector 204, 512 the second engaging member being configured to engage with the first engaging member fig. 5 to physically support the display on the support member fig. 5 disposed within the vehicle, at the wall, while the first electrical connector concurrently electrically couples the second electrical connector fig. 5,

whereby as long as the second engaging member is engaged with the first engaging member, electrical communication between the two electrical connectors is possible (if the display 202 is held by the engaging member then there necessarily has to be connection between the first and second connectors, there's no partial insertion stage for the display into the engaging member).

Claim 2 Ross discloses that the first engaging member and the second engaging member are shaped (308 & hood at 312 in fig. 3) so as to prevent accidental decoupling of the display from the support member.

Claim 3 Ross discloses that engagement of the first engaging member and the second engaging member supports substantially all of the weight of the display fig.

5.

Claim 4 Ross discloses securing means 308 for securing the first mounting component to the second mounting component when the first engaging member and the second engaging member are engaged.

Claim 5 Ross discloses that the first and second electrical connectors mechanically engage one another when the first and second mounting components are mechanically engaged fig. 5.

6. Claims 13-16, 51-54 rejected under 35 U.S.C. 102(e) as being clearly anticipated by Ross et al.

Ross discloses an electrical connector apparatus for a support member (col. 3 lines 63-67) disposed within a vehicle or at a wall (title, abstract 1st sentence) for supporting a display 202 on a first mounting component fig. 3 so as to allow quick electrical and mechanical coupling and decoupling of the display to the support member, the first mounting component fig. 3 comprising: a first engaging member 308, 312, 314; and a first electrical connector 310, 316; wherein the first mounting component is configured for selective coupling to a second mounting component fig. 2 mounted on the support member (col. 2 line 64 to col. 3 line 1) and including a second engaging member 206 having a shape complementary to the first engaging member fig. 5 and a second electrical connector 204, 512, so that when the first engaging member engages the second engaging member fig.5, the display will be physically supported on the support member fig. 5 in the vehicle or on the wall while the first electrical connector concurrently electrically couples the second electrical connector fig. 5 to also cause electrical communication between the two electrical connectors.

Claims 14, 52 Ross discloses that the engaging members are shaped to prevent accidental uncoupling of the display from the support member (308 & hood at 312 in fig. 3).

Claims 15, 53 Ross discloses that when the engaging members engage the second engaging member support substantially all the weight of the display fig. 5.

Claims 16, 54 Ross discloses securing means 308 for securing the first mounting component to the second when the engaging members are engaged.

7. Claims 25-29, 31-35 rejected under 35 U.S.C. 102(e) as being clearly anticipated by Sadler.

Sadler discloses a connector apparatus fig. 1 for allowing quick electrical and mechanical coupling and decoupling of a display 6 substantially limited to displaying results of computer operations performed remote from the display (electronic device 5 has signals sent to it) to a support member 102, the apparatus comprising: (a) the display having a first mounting component fig. 1, the first mounting component having a first engaging member (shape of 5) and a first electrical connector (unnumbered at bottom of 5); and (b) a second mounting component 150, 180 for the support member, the second mounting component including a second engaging member 180 having a shape complementary to the first engaging member fig. 1 and a second electrical connector 166, the second engaging member being configured to engage with the first engaging member to physically support the display fig. 1 on the support member, while the first electrical connector concurrently electrically couples the second electrical

connector, whereby as long as the second engaging member is engaged with the first engaging member electrical communication between the two electrical connectors is possible (if the display is held by the engaging member then there necessarily has to be connection between the first and second connectors, there's no partial insertion stage for the display into the engaging member because of gravity).

Claims 26, 32 Sadler discloses that the engaging members are shaped to prevent accidental uncoupling of the display from the support member e.g. fig. 5.

Claims 27, 33 Sadler discloses that when the engaging members engage the second engaging member support substantially all the weight of the display fig. 1.

Claims 28, 34 Sadler discloses securing means 162 for securing the first mounting component to the second when the engaging members are engaged.

Claims 29, 35 Sadler discloses that the first and second electrical connectors mechanically engage fig. 1 one another when the first and second mounting components are mechanically engaged fig. 4.

8. Claims 103, 105-107, 109-110 rejected under 35 U.S.C. 102(b) as being clearly anticipated by applicant cited Satou.

Satou discloses a system comprising a display monitor 21 and a connector apparatus for allowing quick electrical and mechanical coupling and decoupling of

said display monitor fig. 4 to a support member 2, said system comprising: a first component mounted on said display monitor, said first component having a first engaging member 35, 36, 37 and a first electrical connector 40; and a second component mountable to said support member, said second component having a second engaging member 11, 12 and a second electrical connector 17, wherein said first and second engaging members have complementary shapes to allow the first engaging member to be lowered onto the second engaging member to engage therewith (figures 5-7) so that the support member physically supports said display screen fig. 3, while said first electrical connector concurrently couples with said second electrical connector fig. 7 to permit electrical communication therebetween.

Claim 105 Satou discloses that the first engaging member includes a protrusion (figures 5 & 6).

Claims 106 & 107 Satou discloses that the protrusion is wedge-shaped (fig. 6 beveled edges) and separated from the connector fig. 5.

Claim 109 Satou discloses that the second component includes a cup-shaped housing fig. 5 having a housing component forming a recess 12 for receiving the first mating member of the first component fig. 5, and for necessitating, during removal of the first engaging member from the recess, an upward lifting of the first engaging member to remove the first engaging member from the recess.

Claim 110 Satou discloses that after engagement of the first engaging member and the second engaging member, substantially all of the weight of the display monitor is supported by the second engaging member (figures 3 & 4).

9. Claims 113-114, 116-117, 119-120 rejected under 35 U.S.C. 102(e) as being clearly anticipated by applicant cited Satou.

Satou discloses a connector apparatus for allowing quick electrical and mechanical coupling and decoupling of a display monitor to a support member fig. 4, said connector apparatus comprising: a first component having a first engaging member 35, 36, 37 and a first electrical connector 40; and a second component having a second engaging member 11, 12 and a second electrical connector 17, wherein a) the first component is mountable to one of the display monitor 21 and the support member and the second component is mountable to the other one of the display monitor and the support member 2, b) the first engaging member and second engaging member have complementary shapes to allow the first engaging member and the second engaging member to engage so that the support member physically supports said display screen (figures 3-7), while said first electrical connector and second electrical connector concurrently couple fig. 7 to permit electrical communication therebetween, and c) the first engaging member includes the first electrical connector fig. 6.

Claim 114 Satou discloses that the second engaging member includes the second electrical connector fig. 6.

Claims 116 & 117 Satou discloses that the protrusion is wedge-shaped (fig. 6 beveled edges) and separated from the connector fig. 5.

Claim 119 Satou discloses that the second component includes a cup-shaped housing fig. 5 having a housing component forming a recess 12 for receiving the first mating member of the first component fig. 5, and for necessitating, during removal of the first engaging member from the recess, an upward lifting of the first engaging member to remove the first engaging member from the recess.

Claim 120 Satou discloses that after engagement of the first engaging member and the second engaging member, substantially all of the weight of the display monitor is supported by the second engaging member (figures 3 & 4).

10. Claims 103-104, 111-113, 115, 121-122 rejected under 35 U.S.C. 102(b) as being clearly anticipated by Kunert.

Kunert discloses a system comprising a display monitor (90 in fig. 1A unnumbered top) and a connector apparatus for allowing quick electrical and mechanical coupling and decoupling of said display monitor fig. 8A to a support member 20, said system comprising: a first component fig. 1A mounted on said display monitor, said first component having a first engaging member 46, 48 and a first

electrical connector 96; and a second component mountable to said support member, said second component having a second engaging member 40 and a second electrical connector 32, wherein said first and second engaging members have complementary shapes to allow the first engaging member to be lowered onto the second engaging member to engage therewith (figures 8A, 10, 11) so that the support member physically supports said display screen fig. 4, while said first electrical connector concurrently couples with said second electrical connector (fig. 4 at 32) to permit electrical communication therebetween.

Claims 104, 115 Kunert discloses that the first component is mounted at a rear surface of the display monitor fig. 1A.

Claims 111, 121 Kunert discloses that neither the first engaging member nor the second engaging member are visible to a user facing the front of the display monitor (when display monitor is mounted).

Claims 112, 122 Kunert discloses that the first component is mounted on the rear surface of the display monitor and the first component includes a protrusion 48 that is inserted into a recess of the second engaging member fig. 8A.

Allowable Subject Matter

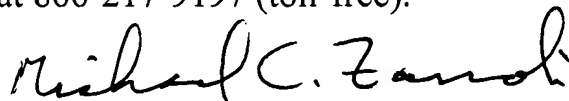
11. Claims 108, 118 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
12. Claims 6, 17-18, 30, 36-37, 55-56, are allowed over the prior art of record.

Conclusion

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Zarroli whose telephone number is 571-272-2101. The examiner can normally be reached on 7:30 to 3:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, T.C. Patel can be reached on (571) 272-2800 ext 39. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Michael C. Zarroli
Primary Examiner
Art Unit 2839

MCZ

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